



A.D. 1861, 6th SEPTEMBER. N° 2222.

S P E C I F I C A T I O N

OF

MARC ANTOINE FRANCOIS MENNONS.

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SMOKE-CONSUMING FURNACES.

LONDON:

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25, SOUTHAMPTON BUILDINGS, HOLBORN.

1862.







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A.D. 1861, 6th SEPTEMBER. N° 2222.

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**Smoke-consuming Furnaces.**

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**LETTERS PATENT** to Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for the Invention of "IMPROVEMENTS IN SMOKE-CONSUMING FURNACES."—A communication from Bernard Palazot, residing at No. 131, Route d'Espagne, Bordeaux, (Gironde).

Sealed the 31st January 1862, and dated the 6th September 1861.

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**COMPLETE SPECIFICATION** filed by the said Marc Antoine François Mennons at the Office of the Commissioners of Patents, with his Petition and Declaration, on the 6th September 1861, pursuant to the 9th Section of the Patent Law Amendment Act, 1852.

5 **TO ALL TO WHOM THESE PRESENTS SHALL COME**, I, MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, send greeting.

**WHEREAS** I am in possession of an Invention for "IMPROVEMENTS IN SMOKE-CONSUMING FURNACES," communicated to me by Bernard Palazot, a  
10 person resident at No. 131, Route d'Espagne, Bordeaux, (Gironde), and have petitioned Her Majesty to grant unto me, my executors, administrators, and assigns, Her Royal Letters Patent for the same, and made solemn declaration that it is a communication :

**NOW KNOW YE**, that I, the said Marc Antoine François Mennons, do  
15 hereby declare that the following Complete Specification under my hand and

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*Mennons' Improvements in Smoke-consuming Furnaces.*

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seal fully describes and ascertains the nature of the Invention, and the manner in which the same is to be performed, reference being had to the Figures of the accompanying Drawing, that is to say:—

The Invention communicated to me consists in an improved distribution of furnace conduits, and registers by means of which a due proportion of oxygen 5 from air or steam may be mingled with the fuliginous products of combustion, and the whole consumed without waste or emission of smoke.

Figures 1, 2, of the accompanying Drawing represent, in longitudinal and transversal sections, a boiler furnace comprising these improvements. A is the conduit for the introduction of the air or steam, the flow of which is 10 regulated by the register *a*, acted on by the rod *b*, passing under the grate *c*. B is a conduit or vaulting of refractory clay or brickwork, in which the products of the combustion mingle with the air or steam admitted by the register *a*; C is the chimney; D, the boiler. The direction of the flame and gases is indicated by the arrows in Figure 1. 15

Having now described the nature of the said Invention, and the manner of carrying it into effect, I declare that I claim the construction and arrangement of smoke-consuming furnaces, in which the fuliginous products of combustion are oxygenized by the admixture of an equivalent of steam or atmospheric air, admitted and regulated by conduits and registers, distributed substantially as 20 above described and represented in the Figures of the accompanying Drawing.

In witness whereof, I, the said Marc Antoine François Mennons, have hereto set my hand and seal, this Thirty-first day of August, in the year of our Lord One thousand eight hundred and sixty-one. 25

M. F. MENNONS. (L.S.)

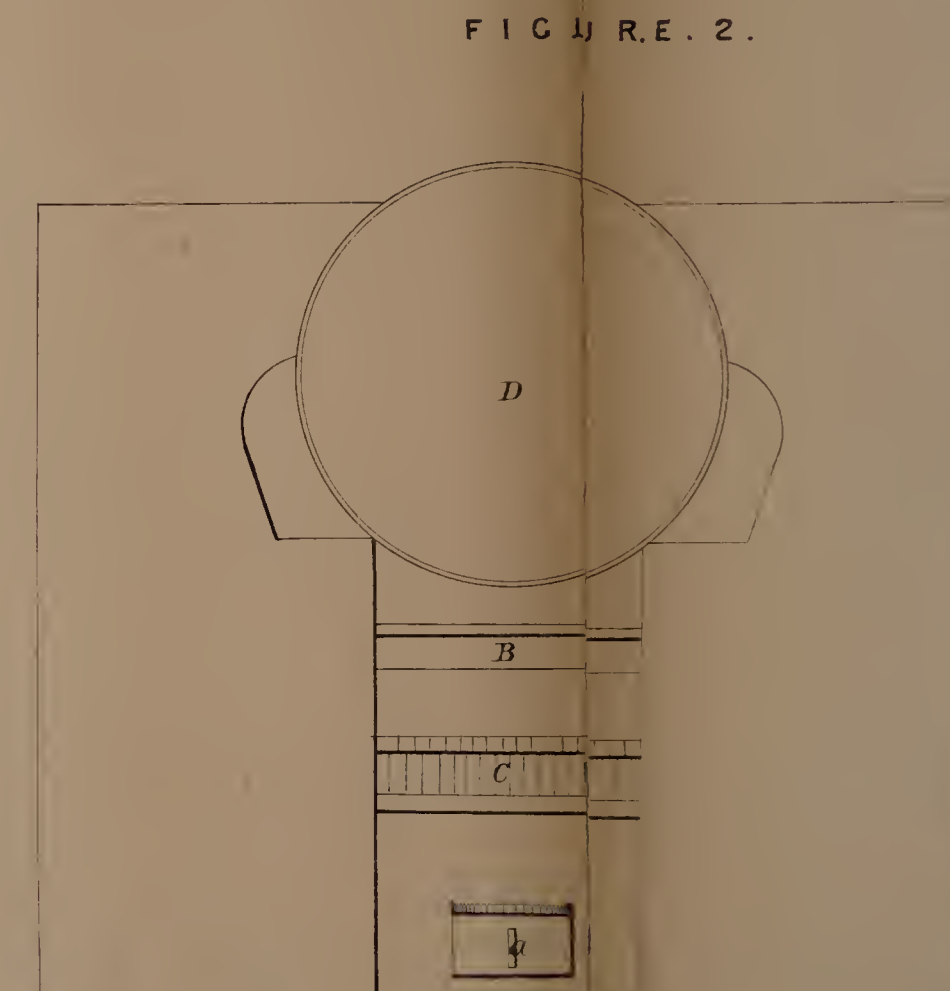
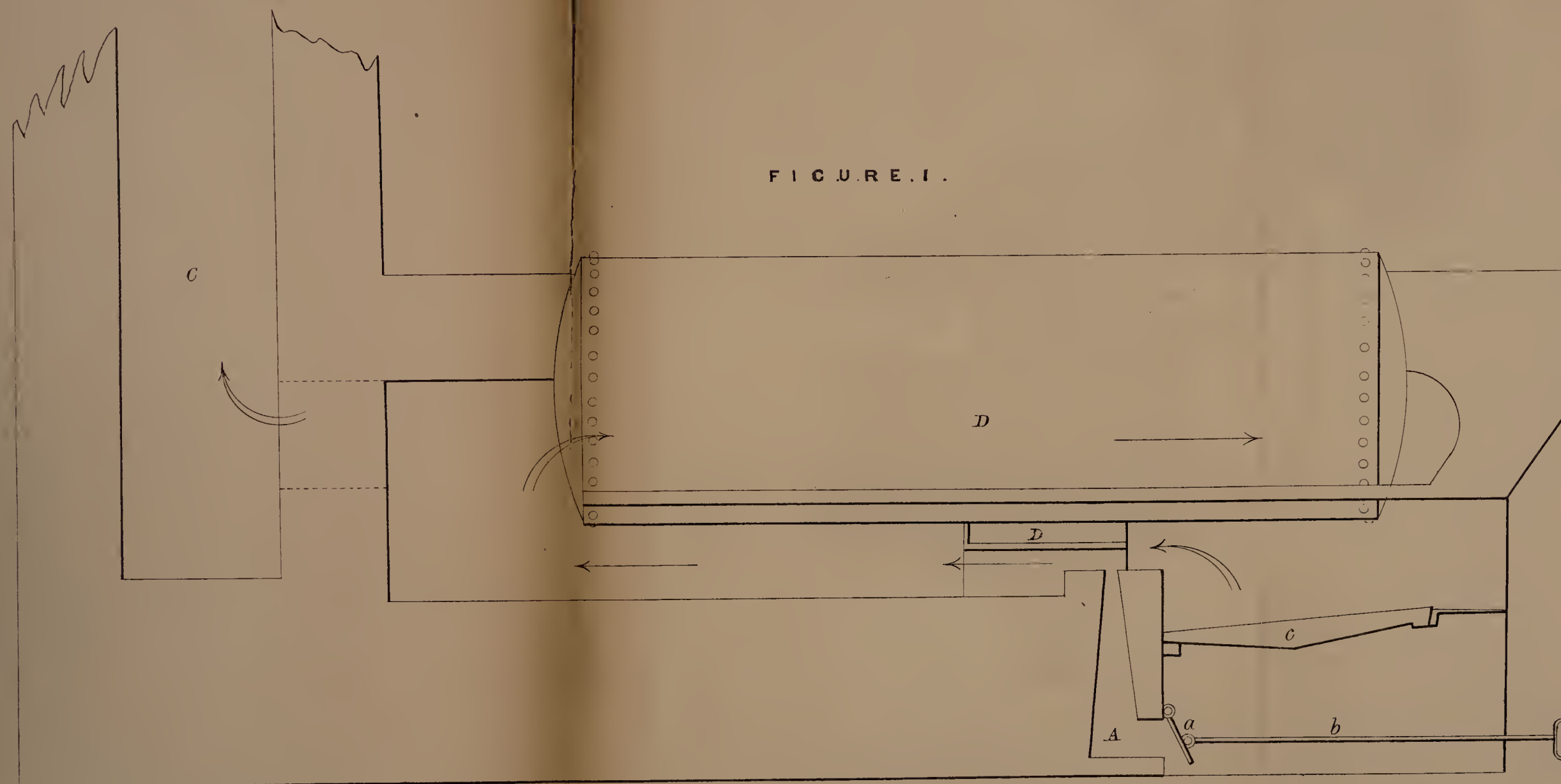
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Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1862.





*The filed drawing is partly colored.*

Drawn on Stone by Maitly & Sons.

